SUBJECT: MATHEMATICS   **UNIT**: 4   **COURSE**: SIXTH GRADE

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Statistic

THROUGHLINES:

- What is the statistic useful for?
- What is the difference between mean, median and mode?
- How do you compare data in dot and box plot?
- Are there different types of graphic in statistics?
- How can I find the volume of a 3D shape?

GENERATIVE TOPIC

GRAPHICAL STATISTICS

UNDERSTANDING GOALS:

| The student will figure out numerical representations of data graphically, including stem-and-leaf plots, and histograms by making predictions from box and dot plots. | The student will understand how to analize numerical data in dot plots by making inferences about a specific population. | The students will learn how to summarize numerical data, including Mean, Median and Mode by comparing two sets of data displayed in dot plots. | The student will understand how to summarize categorical data with numerical and graphical summaries by analysing different representations of data. | The student will learn how to find volume of three-dimensional shapes by applying a general formula for finding the volume of a prism. |

	UNDERSTANDING PERFORMANCES	TIME	ASSESSMENT	
	ACTIONS		**WAYS**	**CRITERIA**
Exploration Stage	- To pose a survey - To watch a video to introduce analysing and comparing data and their application in real life. (Taken from the virtual book) - To build 3D figure given the respective net. - To build rectangular prisms with little cubes.	1 weeks	- Analyzing possible difficulties that can appear on the activities. - Giving arguments of... - Drawing a figure on a grid and then to exchange the figure with his or her partner. ***Synthesis project*** ** The students will be organized in groups of four in order to know how to solve the project.*	- Oral interaction. - Registering trhe results of each exploring activity. - Argument with mathematcis reasons.
Guided Stage	– To compare the data given in dot or box plots. – To summarize numeric data, including the mean and median – To represent numeric data graphically, including box plots, stem-and-leaf plots, and histograms – To interpret numeric data summarized in dot plots – To summarize categorical data with numerical and graphical summaries	6 weeks	- Comparing two sets of data displayed in dot plots - Comparing two sets of data displayed in box plots - Participating in group and individual workshop. - Solving activities from the book "GO MATH LEVEL 7" ***Synthesis project*** ** Students will start creating the infographic template.* ** Students will present the first preview about the topic to their teachers.* ** Students will present the second preview about the topic to their teachers.* ** Students will finish to prepare the presentation in order to be ready to present it.*	Proposing and solving problems with specific process and representations. Using different methods and models to help finding the solution. Arguing the resolution of math problems. Using the appropriate materials for activities.
Learning Evidence	**MY FIRST INFOGRAPHIC** The students are going to create an infographic about a specific topic of the subject. Students must design the infographic and organize the information in an interesting way.	1 weeks	***Synthesis project*** ** Students will present to their classmates and teacher the infographic developed during the classes.*	Synthesizing the main topics as a product.